

Application No. 09/252,691  
Attorney's Docket No. 032796-033

# EXHIBIT A

>gi|1787371|gb|AE000213.1|AE000213 Escherichia coli K12 MG1655 section 103 of 400 of the complete genome

Length = 10959

Score = 85.7 bits (43), Expect = 5e-14

Identities = 73/83 (87%)

Strand = Plus / Minus

Query: 1 gctataatgcggaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60  
|||||  
Sbjct: 9268 gctataatgcggaattcataatctctgaaaataccatgcaaaaaacttcttttagaaat 9209

Query: 61 caccgggttgagcgattcagctc 83  
||||  
Sbjct: 9208 caccaggttaagcgattcagctc 9186

Score = 81.8 bits (41), Expect = 8e-13

Identities = 188/237 (79%)

Strand = Plus / Minus

Query: 114 ccagccaacgcgggtcatactgttcaataaacctacgatgtattgccgcagttaccga 173  
|||||  
Sbjct: 9155 ccagcccacgcgtgtgatcctgttcaataaacctacgatgttcttcgcagttcaccga 9096

Query: 174 cgaggccgggcgagcagcagctgaaggactttatccccgtacagggagtctacgcagcggg 233  
||  
Sbjct: 9095 tgaagccgggacgcaaacattaaaagaattcatcccggttcaggggtttatgcagcagg 9036

Query: 234 acgtctggatcgcgacagcagggggtgctggtccttaccaatgacggcggtgctccaggc 293  
||  
Sbjct: 9035 tcgccttgaccgcgatagcgaagggttgctggtgctgaccaataacggcgctgacggc 8976

Query: 294 caggcttactcagccgggcaaacgtaccggaaaaatttactatgtgcaggttgaagg 350  
|  
Sbjct: 8975 gcgtttaaccagccgggtaaacgcaccggaaaaatctattatgtgcaggtggaagg 8919

Score = 71.9 bits (36), Expect = 8e-10

Identities = 132/164 (80%)

Strand = Plus / Minus

Query: 442 gaacccgagtggtgctggccgcgaacccgcgattcgtgagcgtaaatccattcctacc 501  
|||||  
Sbjct: 8827 gaacccgcgtggttatggccgcggaatccaccaattcgtgaacgcaaaagtattcccacc 8768

Query: 502 agctggcttaaaatcacctttatgaaggccgcaaccgacaggtcaggcgcatgactgcg 561  
|||||  
Sbjct: 8767 agctggctgaagatcaccttatatgaaggacgtaatcgccaggtgcccgcgcatgaccgcc 8708

Query: 562 catgtgggcttcctaccctgcgactcattcgctacgccatggg 605  
|||||  
Sbjct: 8707 catgttggcttccccacgctgcgactgattcgctatgcgatggg 8664

>gi|1651553|dbj|D90748.1|D90748 Escherichia coli genomic DNA. (25.6 - 25.9 min)  
Length = 15007

Score = 85.7 bits (43), Expect = 5e-14  
Identities = 73/83 (87%)  
Strand = Plus / Minus

Query: 1 gctataatgcggaattgataacgcctgaaaataccatgacgaaaacttcttttagaaaa 60  
|||||  
Sbjct: 11191 gctataatgcggaattcataatctctgaaaataccatgcaaaaaacttcttttagaaat 11132

Query: 61 caccgggttgagcgattcagctc 83  
|||||  
Sbjct: 11131 caccaggttaagcgattcagctc 11109

Score = 81.8 bits (41), Expect = 8e-13  
Identities = 188/237 (79%)  
Strand = Plus / Minus

Query: 114 ccagccaacgcgggtcatactgttcaataaacctacgatgtattgccgcagtttaccga 173  
|||||  
Sbjct: 11078 ccagcccacgcgtgtgatcctgttcaataaacctacgatgttcttccgcagttcaccga 11019

Query: 174 cgaggccgggcgagcagcgtgaaggactttatccccgtacagggagtctacgcagcggg 233  
|| |||||  
Sbjct: 11018 tgaagccggacgcaaaacattaaaagaattcatcccgggtcaggggtttatgcagcagg 10959

Query: 234 acgtctggatcgcgacagcagggggtgctggtccttaccaatgacggcgtgctccaggc 293  
|| || || |||||  
Sbjct: 10958 tcgccttgaccgcgatagcgaagggttgctggtgctgaccaataacggcgcgttgccaggc 10899

Query: 294 caggcttactcagccgggcaaacgtaccggaaaaatttactatgtgcaggtgaagg 350  
| || |||||  
Sbjct: 10898 gcgtttaaccagccgggtaaacgcaccggaaaaatctattatgtgcaggtggaagg 10842

Score = 71.9 bits (36), Expect = 8e-10  
Identities = 132/164 (80%)  
Strand = Plus / Minus

Query: 442 gaacccgagtggtgtggccgcgcaacccgccgattcgtgagcgtaaattccattccctacc 501  
|||||  
Sbjct: 10750 gaacccgcgtggttatggccgcggaatccaccaattcgtgaacgcaaaagtattcccacc 10691

Query: 502 agctggcttaaaatcaccttttatgaaggccgcaaccgacaggtcaggcgcatgactgcg 561  
|||||  
Sbjct: 10690 agctggctgaagatcaccttatatgaaggacgtaatcgccaggtgcgccgcatgaccgcc 10631

Query: 562 catgtgggcttccctaccctgcgactcattcgctacgccatggg 605  
|||||  
Sbjct: 10630 catgttggttccccacgctgcgactgattcgctatgcgatggg 10587